#### Analysis of "table1 (slmb primer cyt L)" a 20-mer DNA Oligonucleotide (Sense) TAA TCG CTG CAT CCT CAA **U**

25.0 degrees 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases	
Analysis  Analysis Parameters  56.4 degrees C Probe concentration 66.2 degrees C Salt concentration 58.0 degrees C Formamide concentration 5.3 nMol/A260 Run length 45.0 %  46.6 kCal/Mol 68.0 occurrents  Another C Probe Concentration 1000 1000 1000 1000 1000 1000 1000 10	
101.0 56.4 degrees C 48.8 degrees C 66.2 degrees C 58.0 degrees C 5.3 nMol/A260 32.5 ug/A260 45.0 % 45.0 % 140.6 kCal/Mol 368.0 eu	- 10.4 KCA - /MO =
Molecular Weight The thermodynamic Filter In # GC The AT+GC The Absorbance Percent GC Delta G Delta S 3' End Delta G	

Symmars	
Analysis	
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Number	of	base runs	13	,
Number	οĘ	hairpin loons	ייייייי	0 \ 0
Number	οf	ners		0
Number	Ţ	איים רייל	/ 2-Uligo dimers	0 \ 0
	1 4	)   	/ 2-oligo bulges	0 \ 0
זאמווחפד	5	internal loops	/ 2-oligo internals	

Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide(Antisense) ATC CCT GCT Oligonucleotide Analysis

1000.0 Parameters Hairpin loop stem length Formamide concentration Analysis G Temperature concentration concentration Palindrome length c∥3' End length 5.6 nMol/A260 Run length Delta Probe c||salt υ degrees -37.5 kCal/Mol degrees -164.6 kCal/Mol degrees degrees ug/A260 ec 8.07 63.2 72.3 34.8 6220.1 64.0 60.09 -419.9 Molecular weight Tm thermodynamic O 3' End Delta Absorbance Absorbance Percent GC Filter Tm AT+GC Tm & GC Tm Delta G Delta H Delta s

degrees

25.0 9.0

pMo1 mMo1 bases bases bases bases

4

0.0

000 internals Structural Analysis Summary 2-oligo dimers 2-oligo bulges 2-oligo intern palindromes internal loops hairpin loops bulge loops base runs dimers of of of of οĘ Number Number Number Number Number

-5.1 kCal/Mol

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Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense)

### HU TTA TIC ACC CTG TGA ACT

Oligonucleotide Analy	tide Analysis	Analysis Daramoroxo	0 0 1 1
Molecular weight	0 0003	ייייי ביטלבוייי	IIIC LET S
	0.00	Delta G Temperature	0.5000000000000000000000000000000000000
In thermodynamic	E1 2 DECEMBER 1		יייי משמוקחם ייייי
	or. a degrees C	St.3 degrees C Probe concentration	0.6 nMa1
	43.7 degrees C	43.7 degrees Clasht Concentration	
S GC 13H			TOWN O'COCT
	ow.z degrees C	ow. c degrees Chrormamide concentration	æ 0.0
	56.0 degrees CH3' End length	י היה היה ליה היה היה היה היה היה היה הי	,
Absorbance	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Tire religion	/ Dases
	3.0 mmor/AZ60 Run length	un Length	4 Danga
Absorbance	34.0 ug/A260	Palindrome length	. 0
Percent GC	_		S Dases
		nairbin loop stem length	ב ק ה ה כל
Derte G	-26.5 kCal/Mol		
Delta H	-137.7 kCal/Mol		
Delta 3	-365.8 eu		
3' End Delta G	-3.9 kCal/Mol		

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ואמזומעד	วี	pase runs	/ palindro	omes	\ 0	C	
Number	of	hairpin loops	1		) C	)	
Number	of	•	/ 2-oligo	dimers	\ 0 C	c	
Number	ţ.	bulge loons	) i ( -	} {	` `	) (	
، د ا	, (	7001 281	1	Sagina	\ >	2	_
Number	OI	internal loops	/ 2-oligo	internals	\ 0	0	
					.		٦

Analysis of "table 4 ( s1mb primer ITS2-H)" a 24-mer DNA Oligonucleotide(Antisense)

**(1)** CTG Analysis Parameters TGA ACT CAT GGA TGC CHC ATA S -

degrees bases bases bases bases mMo1 pMol 0.6 25.0 ω · 0 Hairpin loop stem length Formamide concentration concentration concentration G Temperature Palindrome length 3' End length 4.4 nMol/A260 | Run length Delta Probe Salt υ degrees C υ υ -35.5 kCal/Mol -169.5 kCal/Mol -5.2 kcal/Mol degrees degrees ug/A260 degrees a 65.4 0.07 57.8 32.4 72.2 45.8 -442.0 7407.9 Oligonucleotide Analysis Molecular weight Tm thermodynamic Absorbance Percent GC Absorbance Filter Tm AT+GC Im Delta H Delta S & GC TH Delta

Structural Analysis Summary

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3' End Delta

						_
Number	of	base runs	/ palindromes	\ > c	>	
Number	oŧ	hairpin loops	1	\ > c	c	
Number	of	dimers	-oligo almer	\ \ ) (	o c	
Number	of	bulge loops	go bulges	\ \ > c	o c	
Number	of	internal loops	/ 2-oligo internals			٦

Analysis of "table 5 ( slmb primer pro-L ) " a 24-mer DNA Oligonucleotide (Sense)

TCA AAG ACC CAA CGT TCT CAG

Oligonicie	Uligonucleotide Analysis	Analus	Analysis Darameters
Molecular weight	7364 0	C A TRIVE	s taramerers
	6.400	Delta G Temperature	25 0 degrees
Tm Cuermodynamic	67.8 дедтевя	C	בסיים מיסי
Filter Tm		- de concentration	0.6 pMol
	ou.z degrees	rees C Salt concentration	100
TT 75 P	72.2 deg	72.2 degrees C  Formamide concentration	
AT+GC TH	100 C C C		* O.O
		conditions classification render	7 bases
ALD SUIT CE	4.3 nMo]	4.3 nMol/A260  Run length	
Absorbance	31.4 39/8260		20 P
Derroant Co	·/65		8 разез
	45.8 %	Hairbin loop stem length	r
Delta G	-36.5 kCal/Mol		משמע כ
Delta H	-169.9 kCal/Mol	LOW/ L	
Delta s	-439 7 em	1	
3' End Delta G	LOM/ LaDy 9 4-	, , , , , , , , , , , , , , , , , , , ,	
	111111111111111111111111111111		

Number of base runs / palindromes 0 / 0 / 0 Number of hairpin loops 0 / 2-oligo dimers 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0				1	7	
of hairpin loops of dimers / 2-oligo dimers of bulge loops / 2-oligo bulges of internal loops / 2-oligo internals	be		ase run	alindr	l az	
of dimers / 2-oligo dimers of bulge loops / 2-oligo bulges of internal loops / 2-oligo internals	Number		irpin 1		)	) , ) c
of bulge loops / 2-oligo bulges of internal loops / 2-oligo internal	Number		imers	-01ig	ime	\ \ O C
r of internal loops / 2-oligo internal	Number		ulge loop	-01ig	l a	) C
	Number	of	nternal loop	-01ig	nternal	0 0

Analysis of "table 6 ( slmb primer Dloop-H) " a 23-mer DNA Oligonucleotide (Antisense)

### CAC AAA CAT CAG ATC ATC ATA

Tagning et	0	Dase runs	/ palindromes	/ 0	c
Number	oĘ	hairpin loops			)
Number	of	dimers	/ 2-oligo dime	ers 0 /	c
Number	of	bulge loops	o bul	1 (	) C
Number	of	rnal	-oligo int	) H	) C
					,

Analysis of "table 7 ( s1mb primer ROD-L)" a 20-mer DNA Oligonucleotide(Sense)

Parameters 上りり Analysis G Temperature ひむひ Delta GTT υ AGA 67.4 6189.0 Oligonucleotide Analysis CGT CCT Molecular weight Tm thermodynamic Filter Tm Ŋ

degrees

pMol mMo1 bases bases bases bases

25.0 9.0 1000.0 0.0 Hairpin loop stem length Formamide concentration Probe concentration concentration Palindrome length 3' End length nMol/A260 || Run length Salt υ degrees C -154.3 kcal/Mol kCal/Mol degrees degrees degrees ug/A260 þ 59.8 64.0 5.3 72.3 60.0 -34.7 33.0 -394.4 3' End Delta Absorbance Percent GC Absorbance AT+GC Tm & GC Tm Delta G Delta H Delta s

Summary Structural Analysis base runs οĘ

-9.6 kCal/Mol

0 000 internals 2-oligo dimers 2-oligo bulges bulges palindromes 2-oligo internal loops hairpin loops bulge loops dimers of of οĘ of Number Number Number Number Number

Analysis of "table 8 ( slmb primer ROD-H )" a 22-mer DNA Oligonucleotide (Antisense)

H SCC CCC TGT CAT TAT CCT GTT CGT **U** 

		0					
) 		25.0 degrees	1000.0 mMol	7 bases	a bases	3 bases	
)	Analysis Parameters	2,00			بر 4	Ch	
1	Analysis	66.4 degrees C Probe concentration	69.5 degrees C Formamide concentration	End length n length	Palindrome length		
		degrees C	69.5 degrees C FC	5.2 nMol/A260 Run length	34.9 ug/A260   Pa 45.5 %   Ha	-35.4 kCal/Mol -165.0 kCal/Mol	-427.3 eu -7.9 kCal/Mol
	Molecular weight 6738.4	im thermodynamic Filter Im	T E	ince	29 .		Jarea S 3' End Delta G
	Molecu	Filter Im	AT+GC TH	Absorbance Absorbance	Percent GC	Delta H	3' End

		) )	<b>-</b>	`	   		. `	- - - -
7	palindromes			Z-oligo dimera	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ק כ	מדר	J = 5 C + 11 C +
	\		`	`	`	`	/ sd	
	Dase runs	hairpin loops	4	TOUT	bulge loons	); ; ;	internal loop	
	5	of	4		o.	4	70	
Number		Number	Number		Number		Tagina	

Analysis of "table 9 ( LRMB primer 16S-L )" a 21-mer DNA Oligonucleotide (Sense)

#### m CTC LLL ATG AGT CCA CAG CAC **N**

Molecular weight 6421.2		Analysis Darameters	0 70 0	
		Tolte C someone in the Hall	ierei s	Γ
The the sum of deep one in		במדים ביווטפוסווה פ	Zo.U degrees C	υ
TA II SHILL C	degrees C	61.5 degrees C Probe concentration	( Mar 9 0	
Filter Im 53.9 degrees	9 degrees C	C   Salt concentration		
* GC Tm 68.9 degrees	degrees C	68.9 degrees C Formamide Concentration		
AT+GC Th		DE BERT DESCRIPTION	e 0.0	
	) gestern	zero regimens chia rengen	7 bases	
5.1 nMol/A260 Run length	nMol/A260	Run length	4 Dage	
Absorbance 33.0 ug/A260	J ug/A260	Palindrome length	α 3 τ 3 ο 3 ο 3 ο	
Percent GC 47.6 %		Hairbin loon stem length	ט אל לי	
Delta G -31.9 kCal/Mol			S Dases	
Delta H -152.3 kCal/Mol	kCal/Mol			
Delta s -396.4 eu	l eu			
[3' End Delta G -4.9 kCal/Mol_	KCal/Mol ∏			

Number o	f base runs	/ palindromes	0 / 0
Number o	f hairpin loops	~	
Number o	f dimers	/ 2-oligo dimers	0 / 0
Number o	f bulge loops	/ 2-oligo bulges	0 \
Number o	f internal loops	o inter	0 \

Analysis of "table 10 ( LRWB primer 16S-H )" a 18-mer DNA Oligonucleotide (Antisense)

## AGT AGC TIC TAG TCG

Oligonucleotide Analysis	le Analysis			Analysis Parameters	meters	7
Molecular weight	5594.7		Delta	Delta G Temperature	25.0 degrees	0
Tm thermodynamic	51.2 d	едтеев С	Probe	51.2 degrees C Probe concentration	0.6 pMol	
Filter Im	43.6 d	43.6 degrees C	Salt	c Salt concentration	1000.0 mMol	
& GC Th	64.5 d	egrees C	Forman	64.5 degrees C Formamide concentration	% O.O	
AT+GC Im	54.0 d	egrees C	3' End	54.0 degrees C 3' End length	7 bases	
Absorbance	5.7 n	5.7 nMol/A260 Run length	Run 16	angth	4 bases	
Absorbance	31.8 u	31.8 ug/A260	Palinc	Palindrome length	8 bases	
Percent GC	50.0%		Hairp	Hairpin loop stem length	3 bases	
Delta G	-25.3 k	-25.3 kCal/Mol				
Delta H	-123.0 kcal/Mol	Cal/Mol				
Delta S	-320.5 eu	ם				
3' End Delta G	-4.9 k	-4.9 kcal/Mol				- 1

Number	of	base runs	\	palindromes	0 / 0
Number	of	hairpin loops			0
Number	of	dimers	\	2-oligo dimers	0 / 0
Number	of	bulge loops	\	2-oligo bulges	0 / 0
Number	of	internal loops	\	2-oligo internals	0 / 0

Analysis of "table 11 ( LRMB primer 12S-L )" a 19-mer DNA Oligonucleotide (Sense)

#### <u>-</u> AGA CIC TCG GCC TIC CTA **1**0

Oligonucleotide Analysis	de Analysis	•		Analysis Parameters	eters
Molecular weight	5779.8		Delta	Delta G Temperature	25.0 degrees
Tm thermodynamic	62.1	degrees	Probe	62.1 degrees C Probe concentration	0.6 pMol
Filter Tm	54.5	54.5 degrees	Salt	c   Salt concentration	1000.0 mMol
& GC Tm	69.7	degrees (	c  Formar	69.7 degrees C∥Formamide concentration	% 0.0
AT+GC Tm	0.09	60.0 degrees C 3' End length	3' End	d length	7 bases
Absorbance	0.9	6.0 nMol/A260 Run length	O Run 16	ength	4 bases
Absorbance	34.6	34.6 ug/A260	Palind	Palindrome length	8 bases
Percent GC	57.9 %	æ	Hairp:	Hairpin loop stem length	3 bases
Delta G	-31.8	-31.8 kCal/Mol			•
Delta H	-146.6	146.6 kCal/Mol			
Delta S	-378.6 eu	en			
[3' End Delta G	-4.6	-4.6 kCal/Mol			

of hairpin loop of dimers	0	2-oligo	dimers	o \ o o
r of dimers	`	olig	imer	0 / 0
r of bulge loop		)		
2001 OF 15 10 1	/ sdo	2-oligo	bulges	0 / 0
Number of internal loop		2-oligo	internals	0 / 0

7	)
(LRMB primer 12S-H)" a 23-mer DNA Oligonucleotide (Antisense)	ATC ATC CCT CAC CIT AC
primer 12S-H )" a 23-mer L	C ATC CCT
Analysis of "table 12 ( IRMB	C TCC
	์ -

<u>د</u>	ひひじ	HCC	ATC	A.T.C	GCC TCC ATC ATC CCT CAS CT		
)			0.00.00		Analysis 1	er	0
	Oligo	Oligonucleotide Analysis	Analysis		Delta G Temperature	25.0 degrees o	) מ
Molecul	Molecular weight		20030	degrees C	70 8 degrees C Probe concentration	TOWE O COCE	
Th thei	Tm thermodynamic		63.2	degrees C	63 2 degrees C Salt concentration	1 3 3 4 5 5 7 7	
Filter Tm	a a		75.3	degrees C	75.3 degrees C Formamide concentration	7 bases	<b>m</b>
& GC TH	4		72.0	degrees C	72 0 degrees C 3' End length	4 Dases	m
AT+GC TH	Ą		) r	nMo1/A260	5.1 nMol/A260 Run length	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	m
Absorbance	nce		34.9	34.9 ug/A260	Palindrome length	m	m
Absorbance	ince		56.55	i de	Hairpin loop stem length	•	
Percent GC	<del>د</del> 60		-38.9	-38.9 kcal/Mol			
Delta G	(ħ		-174.6	L74.6 KCal/Mol			
Delta H	#		-448.9 eu	ne			
Delta S	σ.		-5.1	-5.1 kCal/Mol_			
[3   End	3. End Delta G						
			Str	uctural An	Structural Analysis Summary		
					0	0	

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2-oligo dimers 2-oligo bulges 2-oligo internals

> of bulge loops of internal loops

Number of

hairpin loops

dimers

Number of base runs

of

Number Number Number

/ palindromes

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Analysis of "table 13 ( DTMB primer 16S-H )" a 20-mer DNA Oligonucleotide (Antisense)

#### JC CTC CGC CGC TCT B C C C CGT CHU D -

				( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	() () ()	•
Oliqonucleotide Analysis	Analysis			Analysis rarameters	ערעד מ	Ŧ
Molegilar weight	6052.0		Delta	Delta G Temperature	25.0 degrees	
	71.7	71.7 degrees C	Probe	c Probe concentration	0.6 pMol	
Filtor Th	64.1	64.1 degrees C	Salt	c salt concentration	1000.0 mMol	
& GC 17th	76.4	degrees C	Forman	<b>76.4 degrees C</b>  Formamide concentration	ø°. ○•	
AT+GC TH	68.0	68.0 degrees c 3' End length	3' Enc	1 length	7 bases	
Absorbance	6.1	6.1 nMol/A260 Run length	Run le	ength	4 bases	
Absorbance	37.2	37.2 ug/A260	Palinc	Palindrome length	8 bases	
Percent GC	70.0	æ	Hairpi	Hairpin loop stem length	3 bases	
Delta G	-37.1	-37.1 kCal/Mol				
Delta H	-157.8	-157.8 kcal/Mol				
Delta 3	-398.9 en	en				
3' End Delta G	-7.9	-7.9 kCal/Mol_				

## Structural Analysis Summary

Number	οf	base runs	/ palindr	omes	0 / 0
Number	οf	hairpin loops			, 0 (
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	of	bulge loops	/ 2-oligo	bulges	0 / 0
Number	οĘ	internal loops	/ 2-oligo	internals	0 / 0

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Analysis of "table 14 ( DTMB primer 16S-L )" a 22-mer DNA Oligonucleotide(Sense) GTT TOL ATG CTT TCC AAA

U degrees bases bases bases bases pMol mMo1 9.0 1000.0 25.0 0.0 Parameters Hairpin loop stem length Formamide concentration Analysis concentration concentration G Temperature Palindrome length 3' End length 4.9 nMol/A260 | Run length Delta Probe Salt υ 64.0 degrees C υ -4.9 kCal/Mol kcal/Mol -171.5 kCal/Mol ug/A260 67.9 degrees degrees degrees e T 60.3 69.5 33.3 -36.9 45.5 -444.2 6756.4 Oligonucleotide Analysis Molecular weight Tm thermodynamic Absorbance Percent GC Absorbance Filter Im AT+GC TB Ů Delta H S GC Th Delta Delta

Structural Analysis Summary

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3' End Delta

00 0 00 0 0 2-oligo internals 2-oligo dimers 2-oligo bulges palindromes internal loops hairpin loops of bulge loops base runs dimers of of οŧ of Number Number Number Number Number

Analysis of "table 15 ( DTMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

7										
الا -	CAT	CGG	CTT	GCT	CAT CGG CTT GCT CTA TTC CTT G	TTC	CTT		ŋ	
-		K 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 - 0 - 0			Analysis	Analysis Parameters			٦
	nuobito	Oligonucleotide Analysis	natysts		8	( )	2.5	25.0 degrees C	rees C	$\vec{\ }$
Molegilar weight	Weight		6723.4	De	Delta G remperature	ומרחות	1			
The the two days and o			68.8 de	grees C Pr	68.8 degrees C Probe concentration	ration		o .	٠,	
			61.2 degrees	grees C Sa	c  Salt concentration	ration	OOOI	TOOU.O MEMOT	4	_
WIT IOSITE			77 79 79	THORN CHECK	71 3 degrees C Formamide concentration	centration		* 0.0		_
a GC Th			77.7	) - C	The second			7 bases	6.3	_
AT+GC Tm			66.0 de	grees Clo	66.0 degrees Characterigen			2000	ď	
	(		5.3 nk	5.3 nMol/A260 Run length	ın length			מ מ מ	) (	_
Absorbance	D		35.5 ud/A260		Palindrome length	ngth		8 bases	n O	
Absorbance	0		n a		Hairpin loop stem length	stem lengt	ц.	3 bases	63	
Percent GC	Ų		. מיני		4					
Delta G			-3/.5 KCR1/MOI	41/MO1						
Delta H			-172.0 kCal/Mol	al/Mot						
Delta 3			-444.3 eu							
3' End Delta	lta G		-7.0 kg	-7.0 kcal/Mol_						
	i									

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2-oligo dimers 2-oligo bulges 2-oligo internals

> Number of bulge loops Number of internal loops

of dimers

Number Number

hairpin loops

of

Number of base runs

Structural Analysis Summary

/ palindromes

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Analysis of "table 16 ( DTMB primer 12S-L )" a 19-mer DNA Oligonucleotide (Sense)

### TCA GTA GGC GGC ATC TCT

	25.0 degrees	0.6 pMol	1000.0 mMol	8 0.0	7 bases	4 bases	8 разез	3 bases			
Analveis Darameter	Delta G Temperature	C Probe concentration	C Salt concentration	60.0 degrees cast and concentration	Bin Length	Aun Length	Falindrome length	naifpin loop stem length			
Oligonucleotide Analysis	5859.8	58 2 Access C	69.7 degrees C	60.0 degrees characters	5.7 nMol/a260 Bin Joneth	33.4 110/10/20		Cal/Mol	-152.5 kcal/Mol	-391.2 eu	רייא נייאל א צר
Oligonucle	The thermodynamic	Filter Tm		AT+GC Tm	Absorbance	Absorbance	Percent GC	Delta G			La End Delta G

Summarv	
Analysis	
Structural	

		) )	, ,	0 (	0 / 0	- 0 \ 0
K Thuning Color	balindromes		2-01igo dimere	origo crimer	yourges	6110
	base runs	hairpin loops	dimers	bulge loops	internal	
	er of	er of	ber of	er of	er of	
	QuinN	Number	Nump	Nump	Numbe	

Analysis of "table 17 ( TCMB primer 16S-H )" a 21-mer DNA Oligonucleotide (Antisense) U -

TCT

GAT

C C C C C

1	(	1						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
n	S GGC GAT	GAT	TCT ACG GCA CGG GCG	ACG	GCA	CGG	<b>B</b> CQ	- m
	Oligonucl	Oligonucleotide Analysis	2127					)
Molecular weight	Weight				Aı	Analysis Parameters	rameters	
The thermodynamic	V. Dami C.	0	5.80co	Delta	Delta G Temperature	ture	2 2 0	
Filter Tm	1		80.4 degre	80.4 degrees C Probe concentration	concentral	tion	9.0	23.0 degrees
SC TH			72.8 degre	12.8 degrees C Salt concentration	concentrat	tion	TOWN B.O	O O DINOT
AT+GC Th			78.6 degre	18.6 degrees C Formamide concentration	nide concer	ntration	0.00	MIMOL
Absorbance			/2.0 degre	72.0 degrees C 3' End length	d length		)	
Absorbance			/lown 1.6	09	ength			אם מר מים מים
Percent GC			33.3 ug/A260		Palindrome length	th.		אם ל מים מים
Delta G			/ T . 4 %		Hairpin loop stem length	em length	o (r	20 cm
Delta H		ĺ	-44./ KCal/Mol	_		1	)	2000
Delta s		Ĭ 1	-186.4 KCAL/Mol	Mol				
3' End Delta	<u>ل</u> م	Ī	408.6 eu					
			-12.8 kcal/Mol_	Mol	į			

			) \ )	C	•	0	`	) \	C	) ,
Analysis Summarv	Z	/ balindromes			7	0	/ 2-oligo bulges	) 5	/ 2-011go internals	
Structural	1	Dase tuns	C	J001	dimers	100	sdoor after	nternal 100	777	
	4		o U		0	ų		ų.		
	Number	)	Number		INTERPORT	Number	1	Number		

Analysis of "table 18 ( TCMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)

#### A GIC TAT AAC CHC GIC CTG AAA N

Oligonucleotide Analysis	Analysis	Analysis Parameters	eters
Molecular weight	6758.5	Delta G Temperature	25.0 degrees C
Tm thermodynamic	60.7 degrees C	c Probe concentration	0.6 pMol
Filter Im	53.1 degrees C	c Salt concentration	1000.0 mMol
& GC Tm	67.6 degrees C	67.6 degrees C Formamide concentration	% 0.0
AT+GC Tm	62.0 degrees C 3' End length	3' End length	7 bases
Absorbance	4.7 nMol/A260 Run length	Run length	4 bases
Absorbance	31.7 ug/A260	Palindrome length	8 bases
Percent GC	40.9%	Hairpin loop stem length	3 bases
Delta G	-31.7 kcal/Mol		
Delta H	-153.3 kCal/Mol		
Delta S	-400.5 eu		
3' End Delta G	-4.1 kCal/Mol_		

Number	of	base runs	/ palindro	mes	0 / 0
Number	of	hairpin loops			0
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	of	bulge loops	/ 2-oligo	bulges	0 / 0
Number	of	internal loops	/ 2-oligo	internals	0 / 0

Analysis of "table 19 ( TCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

### CCT TIC CGA CCA CAG ATT SCG G ເປ -

Oligonucleo	Oligonucleotide Analysis	Analysis Parameters	neters
Molecular weight	6671.4	Delta G Temperature	25.0 degrees
In thermodynamic	74.6 degrees C	74.6 degrees C Probe concentration	0.6 pMol
Filter Tm	67.0 degrees C	67.0 degrees C Salt concentration	1000.0 mMol
& GC Th	75.0 degrees C	75.0 degrees C Formamide concentration	8 0.0
AT+GC TH	70.0 degrees C 3' End length	3' End length	7 bases
Absorbance	5.1 nMol/A260 Run length	Run length	4 bases
Absorbance	34.2 ug/A260	Palindrome length	8 bases
Percent GC	59.1 %	Hairpin loop stem length	3 bases
Delta G	-40.8 kcal/Mol		
Delta H	-176.0 kcal/Mol		
Delta S	-447.5 eu		
3' End Delta G	-7.9 kCal/Mol_		

Number	of	base runs	/ palindro	mes	0 \
Number	of	hairpin loops			0
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	of	bulge loops	/ 2-oligo	bulges	0 / 0
Number	οĘ	internal loops	/ 2-oligo	internals	0 / 0

Analysis of "table 20 ( TCMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense)

m ACA ACT ATA GCC CAG AAA CCT ເປ -

	25.0 degrees C		0.0 PMC+	1000.0 mMol	* O.O	2000	) () ()	4 Dauma	n n n n n n	3 bases	· ·					
Analysis Parameters		Delta G Temperature	she concentration	t concentration		ke a degrees C Formamide concentration	End length	Jength	The state of the s	LINGLOIME FORMS	Hairpin loop stem length					
			7	59.2 degrees 5.60	51.6 degrees Chair concentration	KK 9 degrees C FOI	o o degrees CM3' End length	60.0 Cayreer   Sun   ength	}	30.6 ug/A260    Fa.		Cal/Mol	Jeo A kCal/Mol	100 0 104	-421:0 ed -3 9 kCal/Mol	
	Olivonioleofide Analysis	oronio fi to	Molecular weight	The rmodynamic		Filtor Im	& GC Th	AT+GC Th	a beauthange		Absorbance	Percent GC	Delta G	Delta H	Delta S	3' End Delta G

			7	·	
Number	of	base runs /		C	
Number	of	hairpin loops	· ·	0 \	
Number	of	dimers /	-oilgo dimer	0 / 0	
Number	of	bulge loops /	Pand Oblica-	0 / 0	
Number	of	internal loops /	1		_

Analysis of "table 21 (PCMB primer 16S-H )" a 22-mer DNA Oligonucleotide (Antisense)

#### **(1)** TGC ATG ATG ATG CTG GTT CGT **1**0

Oligonuclec	Oligonucleotide Analysis	Analysis Parameters	neters	
Molecular weight	6867.5	Delta G Temperature	25.0 degree	gree
Tm thermodynamic	64.7 degrees C	64.7 degrees C Probe concentration	0.6 pMol	01
Filter Tm	57.1 degrees C	<b>57.1 degrees C</b> ∥Salt concentration	1000.0 mMol	01
& GC Th	69.5 degrees C	69.5 degrees C Formamide concentration	8 0.0	
AT+GC Tm	64.0 degrees C 3' End length	3' End length	7 bas	bases
Absorbance	4.9 nMol/A260 Run length	Run length	4 bas	bases
Absorbance	33.4 ug/A260	Palindrome length	8 bas	bases
Percent GC	45.5 %	Hairpin loop stem length	3 bas	bases
Delta G	-33.0 kcal/Mol			
Delta H	-150.2 kcal/Mol			
Delta S	-385.9 eu			
3' End Delta G	-6.3 kcal/Mol			

Number	of	base runs	/ palindromes	0 / 0
Number	of	hairpin loops		0
Number	of	dimers	/ 2-oligo dimers	0 / 0
Number	of	bulge loops	/ 2-oligo bulges	0 / 0
Number	of	internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 22 ( PCMB primer 168-1, )"

	ATT CCT TCT TAG TAT G 3'	Mairpin loop stem length  3.6.1 kCal/Mol  3.1 kCal/Mol  49.5 degrees C
d gm 1 77 5	CCT T	ide Analysis 5799.8 49.5 degrees C 41.9 degrees C 61.1 degrees C 52.0 degrees C 5.8 nMol/A260 33.6 ug/A260 36.8 % -26.1 kCal/Mol -371.5 eu
	5 ' ATT	Molecular weight 5799.6  The thermodynamic 49.5  Filter Th 41.9  & GC Th 41.9  Ar-GC Th 61.1  Absorbance 5.8  Absorbance 5.8  Percent GC 5.8  Delta G -26.1  Delta S -31.5

Summary
Analysis
Structural

	c	)	c	0	>	0	
		` ~	`	` `	`	<u>`</u>	
		, (	) C	) (	>	0	
	/ palindromes		/ 2-oligo dimera	יוובט הפורי. פוניל הפורה-	) H -	/ 2-oligo internals	
	r base runs	f hairpin loops	f dimers	f bulge loops	4 - (	-	
,	0	0	0	0	(		
NI a di maria	Namber	Number	Number	Number	Number	7	

Analysis of "table 23 ( PCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

### TAC CCC ATG ACT CTT GAA GCT **U**

	0	
50	25.0 degrees 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases	
Analysis Parameters	т	
	0.0.0.0	
	6725.4 60.3 degrees 52.7 degrees 69.5 degrees 64.0 degrees 5.0 nMol/A26 33.6 ug/A260 45.5 % -32.7 kCal/Mol -164.7 kCal/Mol	-6.6 kCal/Mol_
	Oligonucleotide Analys. eight namic 6725 namic 6065 52 52 52 52 52 52 52 52 52 52 52 52 52 5	
	Property was a second of the s	Delta S 3' End Delta G

				c	_
Number	of	base runs	/ palindromes 0 /	)	_
Number	of	hairpin loops	- F	С	
Number	of	dimers	ramra obtro-	) C	
Number	o F	bulge loops	-oligo bulges	) C	
Number	of	internal loops	/ 2-oligo internais	,	٦

Analysis of "table 24 ( PCMB primer 12S-L )" a 20-mer DNA Oligonucleotide (Sense)

#### <u>-</u> HC CTA GAA ひひむ GAC ATT めいこ **1**0

Oligonucleotide Ana	Analysis	Analysis Parameters	neters
Molecular weight	6182.1	Delta G Temperature	25.0 degrees
Tm thermodynamic	68.1 degrees C	C Probe concentration	0.6 pMol
Filter Tm	60.5 degrees C	c  Salt concentration	1000.0 mMol
& GC Th	70.3 degrees C	<b>70.3 degrees C</b> ∥Formamide concentration	& O.O
AT+GC Th	62.0 degrees C	62.0 degrees c 3' End length	7 bases
Absorbance	5.3 nMol/A260 Run length	Run length	4 bases
Absorbance	32.5 ug/A260	Palindrome length	8 bases
Percent GC	55.0 %	Hairpin loop stem length	3 bases
Delta G	-35.6 kCal/Mol		
Delta H	-159.4 kCal/Mol		
Delta S	-408.5 eu		
3' End Delta G	-4.1 kCal/Mol_		

Number	of	base runs	/ palindromes	0 / 0
Number	o F	hairpin loops		0
Number	of	dimers	/ 2-oligo dimer	0 / 0
Number	of	bulge loops	/ 2-oligo bulge	0 / 0
Number	of	internal loops	/ 2-oligo inter	rnals 0 / 0

Analysis of "table 25 (SLMB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

**m** DDL CHC りりじ TAA GCA TAC **U** 

Oligonucleotide Analysis	de Analysis		Analysis Parameters	rameters
Molecular weight	5579.7		Delta G Temperature	25.0 degrees C
The thermodynamic	61.4 deg	grees C	61.4 degrees C Probe concentration	0.6 pMol
Filter Im	53.8 degrees	grees C	c salt concentration	1000.0 mMol
& GC Tim	66.8 deg	grees C	66.8 degrees c∥Formamide concentration	% 0.0
AT+GC Th	56.0 de	grees C	56.0 degrees C 3' End length	7 bases
Absorbance	5.9 nM	01/1260	5.9 nMol/A260 Run length	4 bases
Absorbance	32.8 ug/A260	/A260	Palindrome length	8 разез
Percent GC	55.6 %		Hairpin loop stem length	3 разез
Delta G	-31.0 kCal/Mol	al/Mol		
Delta H	-143.5 kcal/Mol	al/Mol		
Delta S	-370.2 eu	•	-	
3' End Delta G	-7.9 kCal/Mol	al/Mol_		

Summary
Analysis
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Number	of	base runs	/ palindromes	0 / 0
Number	of	hairpin loops		0
Number	οĘ	dimers	/ 2-oligo dimers	0 / 0
Number	φ	bulge loops	/ 2-oligo bulges	0 / 0
Number	of	internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 26 ( SLMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)

#### H ATC TAC AAC CIC CAC CTA CTA **1**0

Olivoroleotide Analysis	- Analvsis		Analysis Parameters	cers
STA CATACATA	4 0000		Dolta C Temperature	25.0 degrees
Molecular weight	4.8600		ביים ביים ביים ביים ביים ביים ביים ביים	
	52.4	52.4 degrees C	c  Probe concentration	O.e pmor
THE CHATTER THE CANADA	0 77	ממשנים ש	salt concentration	1000.0 mMol
Filter Tm	0	The desired of		al c
& GC Th	67.6	degrees C	67.6 degrees C Formamide concentration	
	62.0	degrees C	62.0 degrees C 3' End length	/ Dases
	6.4	nMo1/A260	4.9 nMol/A260 Run length	4 bases
ADBOLDANCE	3.2 B	32 8 mg/A260	Palindrome length	8 <b>bases</b>
Absorbance	) '	111165	4500	3 bases
Percent GC	40.04	æ	Hairpin toop scenn renden	
Delta G	-27.6	-27.6 kcal/Mol		
Delta H	-146.8	-146.8 kCal/Mol	-	
Delta 3	-392.2 eu	en		
3' End Delta G	-3.8	-3.8 kCal/Mol_		

	4	base runs	/ palindro	omes	, ,	<b>5</b>
1 2	1 4	1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•		0	
Number	7	μ Ο			`	_
Number o	Ť	dimers	/ 2-oligo	dimers	` `	
		, )	0-0-1	Ξ	` `	0
Number	H	parde roops	) 	) ) )	. `	(
Number o	Ť	internal loops	/ 2-oligo	internals	,	

Analysis of "table 27 ( SLMB primer 12S-H )" a 19-mer DNA Oligonucleotide (Antisense)

#### M U CIC TAA TGC CAC ACT CCC ເປ -

Oligonucleotide Analysis	le Analysis			Analysis Parameters	neters	
Molecular weight	5708.8		Delta	Delta G Temperature	25.0 degrees C	(t)
Tm thermodynamic	58.4	58.4 degrees C	Probe	C Probe concentration	0.6 pMol	
Filter Im	50.8	50.8 degrees C	Salt	c salt concentration	1000.0 mMol	
& GC Th	69.7	degrees C	Formam	69.7 degrees C Formamide concentration	% 0.0	
AT+GC TH	0.09	60.0 degrees C 3' End length	3' End	llength	7 bases	
Absorbance	6.1	6.1 nMol/A260 Run length	Run le	ngth	4 bases	
Absorbance	35.0	35.0 ug/A260	Palind	Palindrome length	8 bases	
Percent GC	57.9 %	æ	Hairpi	Hairpin loop stem length	3 bases	
Delta G	-29.4	-29.4 kCal/Mol				
Delta H	-138.5	-138.5 kcal/Mol				
Delta S	-359.0 eu	eu				
3' End Delta G	-5.4	-5.4 kcal/Mol_				

Number	οŧ	base runs	/ palindro	mes	0 / 0
Number	of	hairpin loops			0
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	oĘ	bulge loops	/ 2-oligo	bulges	0 / 0
Number	of	internal loops	/ 2-oligo	internals	0 / 0

Analysis of "table 28 ( SLMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense)

#### m CCT TCT TCA CAA CTA TAA GGC **1**0

OI Idonuci	Uligonucleotide Analysis		
Molecular weight	CAAR O	Analysis Parameters	neters
	7.0**0	Delta G Temperature	25 0 2025
THE CURETHOONY DAME	58.5 degrees C		בייי מתקומת הייי
Filter Tm		<pre></pre>	0.6 pMol
الم	DO. 9 degrees C	C  Salt concentration	1000 C
	66.9 degrees C	C Formamide concentration	TO: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:
AT+GC TE			* 0.0
	oo, o degrees c	co.o degrees c/3. End Length	20247
Ausorbance	5.1 nMol/A260 Run length	אלדאחם ו תוואן אוא ואואן	กอเลา
Absorbance	***	113 611 1	4 bases
	32.0 ug/AZ60	Palindrome length	0 0
Fercent GC	42.9 %	Hairbin 100m of a 1 min 1	
Delta G	130 C 201 0 OF	Harrigan took scent tenden	3 bases
	TOW/TROY O . OC		
DOLCA H	-153.4 kCal/Mol		
Delta S			
	מי מ		
S' End Delta G	-6.3 kcal/Mol		

Summary	
Analysis	
Structural	

				•	
Number	of	base runs	/ palindro	8 9 2	
Number	of	hairpin loops		2	> >
Number	of	dimers	/ 2-oligo	di mera	\ \ \
Number	of	bulde loops	6   CO	יייין מטרנו	) (
Number	of	internal loops	-01ia	1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	) (
			١	1	\ \ >